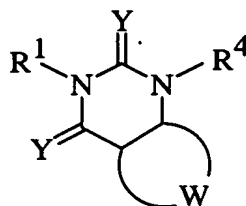


ABSTRACT

Selective MMP-13 inhibitors are fused pyrimidinones of the formula

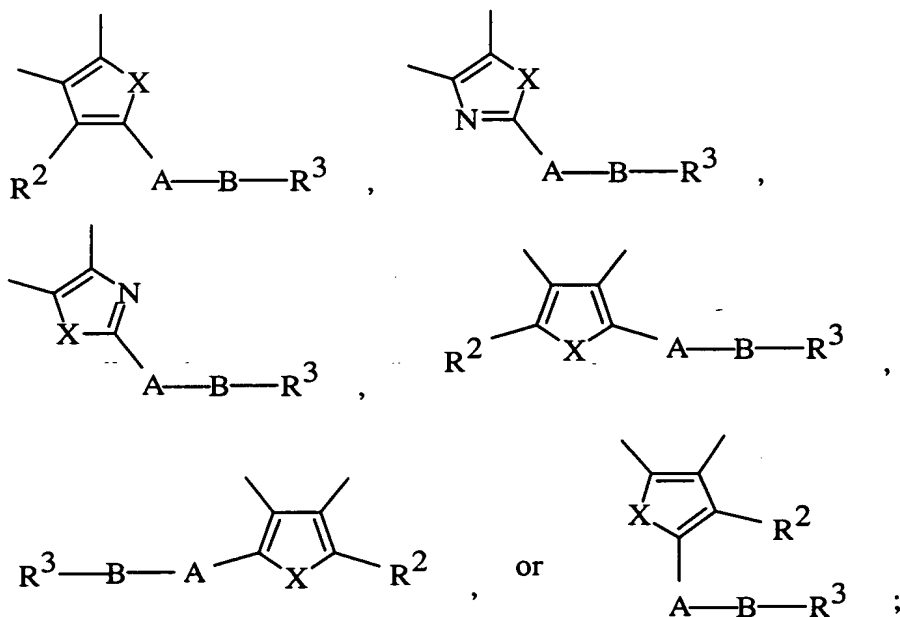


or a pharmaceutically acceptable salt thereof,

5

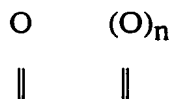
wherein:

W, together with the carbon atoms to which it is attached, form a 5-membered ring diradical



X is O, S, SO, SO₂, NR⁵, or CH₂;

10



A is -C- or -S-;

B is O or NR⁵; or

A and B are taken together to form -C≡C-;

R^1 , R^4 , and R^5 are hydrogen, alkyl, alkenyl, alkynyl, $(CH_2)_n$ aryl, $(CH_2)_n$ cycloalkyl, C_1-C_6 alkanoyl, or $(CH_2)_n$ heteroaryl;

R^2 and R^3 are hydrogen, alkyl, alkenyl, alkynyl CN, NO_2 , NR^4R^5 , $(CH_2)_n$ cycloalkyl, $(CH_2)_n$ aryl, or $(CH_2)_n$ heteroaryl;

5 R^2 may further be halo;

n is an integer of from 0 to 5; and

R^4 and R^5 when taken together with a nitrogen to which they are both attached complete a 3- to 8-membered ring containing carbon atoms and optionally containing O, S, or N, and substituted or unsubstituted;

10 with the proviso that R^1 and R^3 are not both selected from hydrogen and C_1-C_6 alkyl.

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